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FILE COVERS 1907 - 18 Jun 2009 VOL 150 ISS 26
FILE LAST UPDATED: 18 Jun 2009  (20090618/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2009

CA now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s apm1 or adiponectin
          173 APM1
         5472 ADIPONECTIN
L1       5556 APM1 OR ADIPONECTIN

=> s l1 and polyclonal antibod?
        40047 POLYCLONAL
       542111 ANTIBOD?
        20073 POLYCLONAL ANTIBOD?
                (POLYCLONAL(W)ANTIBOD?)
L2         15 L1 AND POLYCLONAL ANTIBOD?

=> s l2 and native(w)(apm1 or adiponectin)
       156938 NATIVE
          173 APM1
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          5472 ADIPONECTIN
             2 NATIVE(W)(APM1 OR ADIPONECTIN)
L3           0 L2 AND NATIVE(W)(APM1 OR ADIPONECTIN)

=> s l2 and native
        156938 NATIVE
L4           0 L2 AND NATIVE

=> s l2 and latex
         75640 LATEX
L5           2 L2 AND LATEX

=> d ti ab l-2

L5   ANSWER 1 OF 2  CA  COPYRIGHT 2009 ACS on STN
TI   Determination of  ***adiponectin***  in serum using a  ***latex***
     particle-enhanced turbidimetric immunoassay with an automated analyzer
AB     ***Adiponectin***  is an adipose-derived hormone that plays a role in
     regulating metabolic processes such as fat partitioning and lipid and
     glucose metab.  Quantification of  ***adiponectin***  is useful for
     obtaining information on metabolic syndrome, but there is no rapid method
     to measure  ***adiponectin***  for clin. use.  The authors developed a
     rapid and sensitive  ***latex***  particle-enhanced turbidimetric
     immunoassay (LTIA) using a  ***latex***  bead-immobilized anti-
       ***adiponectin***  ***polyclonal***  ***antibody***  .  The assay
     was performed on a Hitachi H7170 analyzer and evaluated for validity as a
     method to quantitate  ***adiponectin***  , in parallel with the ELISA.
     Diln. tests using LTIA showed linearity from 0.25 to 30 .mu.g/mL.
     Within-run CV and total CV were obtained in the range 0.8-1.9% and
     1.1-2.0%, resp.  No interference was obsd. in the testing of specimens
     contg. potentially interfering substances such as bilirubin,
     ditaurobilirubin, Hb triglyceride, rheumatoid factor, type IV collagen,
     fibronectin, and complement factor (C1q).  A strong correlation between
     LTIA and ELISA was confirmed (n = 30, r = 0.990, y = 0.95x + 0.39).  The
     LTIA assay is applicable to quantitating the serum concn. of
       ***adiponectin***  .  This assay is more convenient and faster than ELISA
     and suitable for clin. routine anal.

L5   ANSWER 2 OF 2  CA  COPYRIGHT 2009 ACS on STN
TI     ***Latex***  reagent for  ***adiponectin***  analysis, and
       ***adiponectin***  analysis method
AB   A  ***latex***  reagent for  ***adiponectin***  anal. is provided,
     which comprises a suspension of  ***latex***  particles carrying a
     substance (e.g., anti-  ***adiponectin***  ***polyclonal***
       ***antibody***  ) capable of specifically binding with
***adiponectin***
     .  Also provided is a method for  ***adiponectin***  anal., which
     comprises: (1) a step for obtaining a biol. liq. potentially contg.
       ***adiponectin***  ; and (2) a step for contacting the biol. liq.
obtained
     in the step (1) as it is with a suspension of  ***latex***  particles
     carrying a substance capable of specifically binding with
       ***adiponectin***  , and optically analyzing the resultant mixt. to det.
     the degree of agglutination of the  ***latex***  particles.  According
     to this  ***latex***  reagent for  ***adiponectin***  anal. and this
       ***adiponectin***  anal. method, it is not required to dil. or pretreat
a
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biol. liq. as a test sample beforehand, and the anal. is rapidly and conveniently performed without limiting a measurement facility.

=> d all 1-2

L5 ANSWER 1 OF 2 CA COPYRIGHT 2009 ACS on STN
AN 145:391809 CA <<LOGINID::20090620>>
ED Entered STN: 02 Nov 2006
TI Determination of ***adiponectin*** in serum using a ***latex*** particle-enhanced turbidimetric immunoassay with an automated analyzer
AU Nishimura, Ayako; Sawai, Tokio
CS Division of Research and Development, Mitsubishi Kagaku Iatron Inc., 1460-6 Mitodai, Tako-machi, Katori-gun, Chiba-ken, 289-2247, Japan
SO Clinica Chimica Acta (2006), 371(1-2), 163-168
CODEN: CCATAR; ISSN: 0009-8981
PB Elsevier Ltd.
DT Journal
LA English
CC 9-10 (Biochemical Methods)
AB ***Adiponectin*** is an adipose-derived hormone that plays a role in regulating metabolic processes such as fat partitioning and lipid and glucose metab. Quantification of ***adiponectin*** is useful for obtaining information on metabolic syndrome, but there is no rapid method to measure ***adiponectin*** for clin. use. The authors developed a rapid and sensitive ***latex*** particle-enhanced turbidimetric immunoassay (LTIA) using a ***latex*** bead-immobilized anti-***adiponectin*** ***polyclonal*** ***antibody*** . The assay was performed on a Hitachi H7170 analyzer and evaluated for validity as a method to quantitate ***adiponectin*** , in parallel with the ELISA. Diln. tests using LTIA showed linearity from 0.25 to 30 .mu.g/mL. Within-run CV and total CV were obtained in the range 0.8-1.9% and 1.1-2.0%, resp. No interference was obsd. in the testing of specimens contg. potentially interfering substances such as bilirubin, ditaurobilirubin, Hb triglyceride, rheumatoid factor, type IV collagen, fibronectin, and complement factor (C1q). A strong correlation between LTIA and ELISA was confirmed (n = 30, r = 0.990, y = 0.95x + 0.39). The LTIA assay is applicable to quantitating the serum concn. of ***adiponectin*** . This assay is more convenient and faster than ELISA and suitable for clin. routine anal.
ST ***adiponectin*** detn serum ***latex*** particle turbidimetric immunoassay automated analyzer; metabolic syndrome ***adiponectin*** serum immunoturbidimetry automatic analyzer
IT Cytokines
RL: ANT (Analyte); ANST (Analytical study)
(***adiponectin*** ; detn. of ***adiponectin*** in serum using ***latex*** particle-enhanced turbidimetric immunoassay with automated analyzer)
IT Blood analysis
Human
Immunoturbidimetry
Metabolic disorders
(detn. of ***adiponectin*** in serum using ***latex*** particle-enhanced turbidimetric immunoassay with automated analyzer)
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anon; JAMA 2001, V285, P2486

(2) Arita, Y; Biochem Biophys Res Commun 1999, V257, P79 CA
(3) Arita, Y; Circulation 2002, V105, P2893 CA
(4) Bland, J; Lancet 1986, V1, P307 MEDLINE
(5) Daimon, M; Diabetes Care 2003, V26, P2015 CA
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(9) Hotta, K; Diabetes 2001, V50, P1126 CA
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(13) Maeda, K; Biochem Biophys Res Commun 1996, V221, P286 CA
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(23) Ryo, M; Circ J 2004, V68, P975 CA
(24) Tsukinoki, R; Lipids Health Dis 2005, V4, P27

L5 ANSWER 2 OF 2 CA COPYRIGHT 2009 ACS on STN
AN 141:310247 CA <<LOGINID::20090620>>
ED Entered STN: 28 Oct 2004
TI ***Latex*** reagent for ***adiponectin*** analysis, and ***adiponectin*** analysis method
IN Tachikawa, Tetsuya; Akamatsu, Suguru; Sawai, Tokio; Nishimura, Fumiko
PA Mitsubishi Kagaku Iatron, Inc., Japan; Otsuka Pharmaceutical Co., Ltd.
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM G01N033-53
ICS G01N033-543
CC 9-10 (Biochemical Methods)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004086040	A1	20041007	WO 2004-JP4083	20040324
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004223553	A1	20041007	AU 2004-223553	20040324
	AU 2004223553	B2	20081204		
	CA 2520438	A1	20041007	CA 2004-2520438	20040324
	EP 1607742	A1	20051221	EP 2004-723044	20040324

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

US 20070037207 A1 20070215 US 2005-550324 20050923
PRAI JP 2003-80763 A 20030324
WO 2004-JP4083 W 20040324

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004086040	ICM	G01N033-53
	ICS	G01N033-543
	IPCI	G01N0033-53 [ICM,7]; G01N0033-543 [ICS,7]
	IPCR	G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*]; G01N0033-68 [I,A]
	ECLA	G01N033/543D; G01N033/68V
AU 2004223553	IPCI	G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*]; G01N0033-68 [I,A]
	IPCR	G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*]; G01N0033-68 [I,A]
	ECLA	G01N033/543D; G01N033/68V
CA 2520438	IPCI	G01N0033-53 [ICM,7]; G01N0033-543 [ICS,7]
	IPCR	G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0033-68 [I,C*]; G01N0033-68 [I,A]
	ECLA	G01N033/543D; G01N033/68V
EP 1607742	IPCI	G01N0033-53 [ICM,7]; G01N0033-543 [ICS,7]
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	ECLA	G01N033/543D; G01N033/68V
US 20070037207	IPCI	G01N0033-53 [I,A]; G01N0033-551 [I,A]
	NCL	435/007.100; 436/524.000

AB A ***latex*** reagent for ***adiponectin*** anal. is provided, which comprises a suspension of ***latex*** particles carrying a substance (e.g., anti- ***adiponectin*** ***polyclonal*** ***antibody***) capable of specifically binding with ***adiponectin*** . Also provided is a method for ***adiponectin*** anal., which comprises: (1) a step for obtaining a biol. liq. potentially contg. ***adiponectin*** ; and (2) a step for contacting the biol. liq. obtained in the step (1) as it is with a suspension of ***latex*** particles carrying a substance capable of specifically binding with ***adiponectin*** , and optically analyzing the resultant mixt. to det. the degree of agglutination of the ***latex*** particles. According to this ***latex*** reagent for ***adiponectin*** anal. and this ***adiponectin*** anal. method, it is not required to dil. or pretreat a biol. liq. as a test sample beforehand, and the anal. is rapidly and conveniently performed without limiting a measurement facility.

ST ***adiponectin*** analysis ***latex*** agglutination reagent antibody

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(***adiponectin*** anal. method using ***latex*** agglutination

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       immunoassay reagent)
IT   Cytokines
     RL: ANT (Analyte); ANST (Analytical study)
        (  ***adiponectin***  ;   ***adiponectin***   anal. method using
          ***latex***   agglutination immunoassay reagent)
IT   Agglutination test
        (  ***latex***  ;   ***adiponectin***   anal. method using
          ***latex***   agglutination immunoassay reagent)
IT    ***Latex***
        (particles;   ***adiponectin***   anal. method using   ***latex***
        agglutination immunoassay reagent)
RE.CNT  4     THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) A&t Corp; JP 20014624 A 2001
(2) Otsuka Pharmaceutical Co Ltd; EP 1033134 A 1999 CA
(3) Otsuka Pharmaceutical Co Ltd; US 6461821 B 1999 CA
(4) Otsuka Pharmaceutical Co Ltd; WO 9921577 A 1999 CA


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     (FILE 'HOME' ENTERED AT 18:53:42 ON 20 JUN 2009)

     FILE 'CA' ENTERED AT 18:54:00 ON 20 JUN 2009
L1          5556 S APM1 OR ADIPONECTIN
L2            15 S L1 AND POLYCLONAL ANTIBOD?
L3             0 S L2 AND NATIVE(W)(APM1 OR ADIPONECTIN)
L4             0 S L2 AND NATIVE
L5             2 S L2 AND LATEX

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                                                       ENTRY    SESSION
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